

Amendments to the Claims:

1-12. (Cancelled)

13. (New) A nonlinear optical crystal comprising a compound represented by the formula:
 $K_2Al_2B_2O_7$.

14. (New) A method of making a nonlinear optical crystal comprising a compound represented by the formula $K_2Al_2B_2O_7$, said method comprising growing a nonlinear optical crystal comprising a compound represented by the formula $K_2Al_2B_2O_7$ via solution growth with a flux.

15. (New) A method of making a nonlinear optical crystal according to claim 14, wherein said growing comprises growing by solution growth with a flux that is at least one material selected from the group consisting of lead oxide, sodium fluoride, cesium fluoride, lead fluoride or potassium chloride.

16. (New) A method of converting a wavelength comprising:
growing a nonlinear optical crystal comprising a compound represented by the formula $K_2Al_2B_2O_7$ via solution growth with a flux, and
illuminating, with laser light, a nonlinear optical crystal comprising a compound represented by the formula $K_2Al_2B_2O_7$.

17. (New) A method of converting a wavelength according to claim 16, wherein said growing comprises growing by solution growth with a flux that is at least one material selected from the group consisting of lead oxide, sodium fluoride, cesium fluoride, lead fluoride or potassium chloride.

18. (New) A wavelength conversion element comprising:
a nonlinear optical crystal comprising a compound represented by the formula $K_2Al_2B_2O_7$,

wherein said nonlinear optical crystal has an input surface capable of receiving input laser light having a fundamental wavelength, and

wherein said nonlinear optical crystal has an output surface capable of transmitting an output laser light having a second harmonic.

19. (New) A wavelength conversion element according to claim 18 wherein said nonlinear optical crystal comprises a crystal grown via solution growth with a flux.

20. (New) A wavelength conversion element according to claim 19, wherein said growing comprises growing by solution growth with a flux that is at least one material selected from the group consisting of lead oxide, sodium fluoride, cesium fluoride, lead fluoride or potassium chloride.

B4 21. (New) A wavelength conversion apparatus comprising:
a wavelength conversion element comprising a nonlinear optical crystal comprising a compound represented by the formula $K_2Al_2B_2O_7$,

wherein said nonlinear optical crystal has an input surface capable of receiving input laser light having a fundamental wavelength, and

wherein said nonlinear optical crystal has an output surface capable of transmitting an output laser light having a second harmonic.

22. (New) A wavelength conversion apparatus according to claim 21, wherein said nonlinear optical crystal comprises a crystal grown via solution growth with a flux.

23. (New) A wavelength conversion apparatus according to claim 22, wherein said growing comprises growing by solution growth with a flux that is at least one material selected from the group consisting of lead oxide, sodium fluoride, cesium fluoride, lead fluoride or potassium chloride.

24. (New) A wavelength conversion method comprising: illuminating, with laser light, a nonlinear optical crystal comprising a compound represented by the formula $K_2Al_2B_2O_7$.
